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## **AMENDMENTS TO THE CLAIMS**

## 1-3 (Cancelled).

- 4. (Previously Presented) A method of collecting and separating a patient's blood and recovering a platelet-rich concentrate comprising:
- (a) collecting the patient's blood using a needle set comprising a hollow needle coupled with a tubing having a fitting adapted to engage a first port in an elongated container fitted with a movable plunger having a second port therein;
- (b) transferring said blood from the needle through the tubing, the fitting, and said first port into said elongated container by moving the plunger away from the first port;
- (c) centrifuging said blood in said container and separating said blood into platelet-rich plasma and red blood cells;
- (d) displacing the red blood cells separated in (c) from said container by moving said plunger towards said first port and expelling said red blood cells into a waste bag through tubing attached to said first port;
- (e) removing said waste bag of (d) and centrifuging said platelet-rich plasma remaining in said container and separating a platelet-rich concentrate from a platelet-poor plasma;
- (f) attaching a hollow plunger rod having a third port therein to said plunger and displacing the platelet-poor plasma separated in (e) from said container by moving said plunger towards said first port and expelling said platelet-poor plasma through said second port of said plunger and said third port of said plunger rod into a waste bag attached to the plunger rod; and
- (g) recovering the platelet-rich concentrate separated in (e) and remaining in said container.
- 5. (Previously Presented) A method of collecting and separating a patient's blood and recovering a platelet-rich concentrate comprising:
- (a) collecting the patient's blood using a needle set comprising a hollow needle having attached tubing and a fitting adapted to engage a first port in an elongated container fitted with a movable plunger having a second port therein;

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- (b) opening a valve positioned within the first port;
- (c) transferring said blood through said first port into said elongated container by moving the plunger away from the first port;

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- (d) closing the valve;
- (e) centrifuging said blood in said container and separating said blood into platelet-poor plasma, red blood cells, and platelet-rich concentrate;
- (f) displacing the red blood cells separated in (e) from said container by moving said plunger towards said first port and expelling said red blood cells into a waste bag through tubing attached to said first port;
- (g) removing said waste bag of (f) and attaching a hollow plunger rod having a third port therein to said plunger and displacing the platelet-poor plasma separated in (c) from said container by moving said plunger toward said first port and expelling said platelet-poor plasma through said second port of said plunger and said third port of said plunger rod into a waste bag attached to the plunger rod; and
- (h) recovering the platelet-rich concentrate separated in (e) and remaining in said container.
  - 6-7 (Cancelled).
- 8. (Previously Presented) A method of Claim 4 wherein said centrifuging of step (c) is a soft spin.
- 9. (Previously Presented) A method of Claim 5 wherein said centrifuging of step (e) is a heavy spin.
- 10. (Previously Presented) A method of Claim 4 wherein displacing said red blood cells, platelet-rich plasma, and platelet-poor plasma is carried out manually.

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- (Previously Presented) A method of collecting and separating a patient's blood and 11. recovering a platelet-rich concentrate comprising:
- collecting the patient's blood using a needle set comprising a hollow needle having attached tubing and a fitting adapted to engage a first port in an elongated container fitted with a movable plunger having a second port therein;
  - transferring said blood through said first port into said elongated container; (b)
- centrifuging said blood in said container and separating said blood into (c) platelet-rich plasma and red blood cells;
- displacing the red blood cells separated in (c) from said container by moving (d) said plunger towards said first port and expelling said red blood cells into a waste bag through tubing attached to said first port;
- removing said waste bag of (d) and centrifuging said platelet-rich plasma remaining in said container and separating a platelet-rich concentrate from a platelet-poor plasma;
- (f) attaching a hollow plunger rod having a third port therein to said plunger and displacing the platelet-poor plasma separated in (e) from said container by moving said plunger towards said first port and expelling said platelet-poor plasma through said second port of said plunger and said third port of said plunger rod into a waste bag attached to the plunger rod;
- recovering the platelet-rich concentrate separated in (e) and remaining in said (g) container; and

wherein displacing said red blood cells, platelet-rich plasma, and platelet-poor plasma is carried out automatically in centrifuge equipment having facilities for opening said ports.

- 12. (Previously Presented) A method of Claim 4 wherein said elongated container contains a small amount of a blood anti-coagulant.
- 13. (Previously Presented) A method of Claim 5 wherein displacing said red blood cells. platelet-rich plasma, and platelet-poor plasma is carried out manually.

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14. (Previously Presented) A method of Claim 5 wherein displacing said red blood cells, platelet-rich plasma, and platelet-poor plasma is carried out automatically in centrifuge equipment having facilities for opening said ports.

- 15. (Previously Presented) A method of Claim 5 wherein said elongated container contains a small amount of a blood anti-coagulant.
- 16. (Previously Presented) A method of collecting and separating a patient's blood and recovering a platelet-rich concentrate comprising:
- (a) collecting the patient's blood using a needle set comprising a hollow needle and a fitting adapted to engage a first port in a container fitted with a movable plunger having a second port therein;
- (b) transferring said blood through said first port into said container by moving the plunger away from the first port;
- (c) centrifuging said blood in said container and separating said blood into platelet-rich plasma and red blood cells;
- (d) displacing the red blood cells from said container by moving said plunger towards said first port and expelling said red blood cells through said first port;
- (e) centrifuging said platelet-rich plasma remaining in said container and separating a platelet-rich concentrate from a platelet-poor plasma;
- (f) attaching a hollow plunger rod having a third port therein to said plunger and displacing the platelet-poor plasma from said container by moving said plunger towards said first port and expelling said platelet-poor plasma through said second port of said plunger and said third port of said plunger rod; and
  - (g) recovering the platelet-rich concentrate.
- 17. (Previously Presented) The method of claim 4, wherein the first port includes a valve, the method further comprising opening the valve prior to the act of transferring said blood.

18. (Previously Presented) The method of claim 16, wherein the first port includes a valve, the method further comprising opening the valve prior to the act of transferring said blood.

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